

## CLAIM AMENDMENTS

### Claim Amendment Summary

#### Claims pending

- At time of the Action: Claims 1-18, 42, 45, and 48.
- After this Response: Claims 1-18, 42, 45, and 48.

Canceled or Withdrawn claims: none.

Amended claims: 1, 16, 17, 42, and 45.

New claims: none.

### Claims:

1. (CURRENTLY AMENDED) A method of serializing an object, the method comprising:

generating a data structure ("datastruct") element embodied in one or more computer-readable media, the datastruct element being representative of a data structure of a first object, the datastruct element having a pair of datastruct tags, wherein the datastruct tags identify the datastruct element;

generating contents of the datastruct element between the datastruct tags, the contents comprising one or more data parameter elements representative of one or more data parameters of the first object's data structure, each parameter element having a pair of parameter tags associated therewith, wherein each pair of parameter tags identifies a parameter element with which the pair of tags is

421 West Riverside, Suite 500  
Spokane, WA 99201  
P: 509.324-9256  
F: 509.323-8979  
www.leeandhayes.com

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1/17/2005

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atty: Kasey C. Christie

1 associated, each parameter element having associated data between the pair of  
2 parameter tags.

3  
4 2. (ORIGINAL) A method as recited in claim 1, wherein the contents  
5 further comprise at least one object reference referencing a second object within  
6 the data structure of the first object without including the second object within the  
7 contents of the datastruct element.

8  
9 3. (ORIGINAL) A method as recited in claim 2, wherein the second  
10 object is the first object.

11  
12 4. (ORIGINAL) A method as recited in claim 1, wherein the contents  
13 comprises a datatype definition for at least one data parameter element.

14  
15 5. (ORIGINAL) A method as recited in claim 1, wherein the contents  
16 comprises a reference to a datatype definition for at least one data parameter  
17 element.

18  
19 6. (ORIGINAL) A method as recited in claim 1, wherein at least one of  
20 the pair of datastruct tags comprises a datatype definition for at least one data  
21 parameter element.

1 7. (ORIGINAL) A method as recited in claim 1, wherein at least one of  
2 the pair of datastruct tags comprises a reference to a datatype definition for at least  
3 one data parameter element.

4  
5 8. (ORIGINAL) A method as recited in claim 1, wherein at least one of  
6 a pair of parameter tags comprises a datatype definition for associated data  
7 between the parameter tags.

8  
9 9. (ORIGINAL) A method as recited in claim 1, wherein at least one of  
10 a pair of parameter tags comprises a reference to a datatype definition for  
11 associated data between the parameter tags.

12  
13 10. (ORIGINAL) A method as recited in claim 1, wherein the datastruct  
14 element and its contents are encoded using XML.

15  
16 11. (ORIGINAL) A method as recited in claim 1 further comprising:  
17 inserting the datastruct element into a message; and  
18 sending the message to an entity on a network.

19  
20 12. (ORIGINAL) A method as recited in claim 11 further comprising:  
21 formatting the message for sending over a network using HTTP;  
22 sending the message to an entity on the network by using HTTP.

421 West Riverside, Suite 500  
Spokane, WA 99201  
P: 509 324-9256  
F: 509 323-8979  
www.leeandhayes.com  
**lee & hayes**

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att: Kasey C. Christie

1 13. (ORIGINAL) A method as recited in claim 11 further comprising:  
2 binding the message into a HTTP request;  
3 sending the message to an entity on the network by using HTTP.

4  
5 14. (ORIGINAL) A method as recited in claim 1, wherein a data  
6 parameter element has the following format:

7 `<parameter_label> parameter_data </parameter_label>`  
8

9 the `<parameter_label>` being one of the pair of parameter tags, the  
10 `</parameter_label>` being the other of the pair of parameter tags, and the  
11 `parameter_label` identifying the data parameter element;

12 the `parameter_data` being the data associated with the parameter element  
13 identified by the `parameter_label`.

14  
15 15. (ORIGINAL) A computer-readable storage medium having  
16 computer-executable instructions that, when executed by a computer, performs the  
17 method as recited in claim 1.

421 West Riverside, Suite 500  
Spokane, WA 99201  
P: 509.324-9256  
F: 509.323-8978  
www.leeandhayes.com  
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1           **16. (CURRENTLY AMENDED)** A method of serializing an object, the  
2 method comprising:

3           generating a data structure ("datastruct") element having a pair of datastruct  
4 tags encoded in XML, wherein the datastruct tags identify the datastruct element;

5           generating contents of the datastruct element between the datastruct tags,  
6 the contents comprising one or more data parameter elements, each having a pair  
7 of parameter tags associated therewith and encoded in XML, wherein each pair of  
8 parameter tags identifies a parameter element with which the pair of tags is  
9 associated, each parameter element having associated data between the parameter  
10 tags.

11  
12           **17. (CURRENTLY AMENDED)** A method of serializing an object, the  
13 method comprising:

14           generating a data structure ("datastruct") element embodied in one or more  
15 computer-readable media, the datastruct element being representative of a data  
16 structure of a first object, the datastruct element having a pair of datastruct tags,  
17 wherein the datastruct tags identify the datastruct element;

18           generating contents of the datastruct element between the datastruct tags,  
19 the contents comprising at least one object reference referencing a second object  
20 within the data structure of the first object without including the second object  
21 within the contents of the datastruct element.

22  
23           **18. (ORIGINAL)** A method as recited in claim 17, wherein the second  
24 object is the first object.  
25

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421 West Riverside, Suite 500  
Spokane, WA 99201  
P: 509.324.9256  
F: 509.323.8979  
www.leeandhayes.com

1           **Claims 19-41 are NON-ELECTED AND THUS CANCELED.**

2  
3           **42. (CURRENTLY AMENDED)** A computer-readable storage medium  
4 having computer-executable instructions that, when executed by a computer,  
5 performs a method of formatting a message for exchange between entities on a  
6 network, the method comprising:

7           generating a data structure ("datastruct") element representative of a data  
8 structure of a first object, the datastruct element having a pair of datastruct tags,  
9 wherein the datastruct tags identify the datastruct element;

10           generating contents of the datastruct element between the datastruct tags,  
11 the contents comprising one or more data parameter elements representative of  
12 one or more data parameters of the first object's data structure, each parameter  
13 element having a pair of parameter tags associated therewith, wherein each pair of  
14 parameter tags identifies a parameter element with which the pair of tags is  
15 associated, each parameter element having associated data between the parameter  
16 tags.

17  
18           **43. (CANCELED)**

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20           **44. (CANCELED)**

421 West Riverside, Suite 500  
Spokane, WA 99201  
P: 509.324-9256  
F: 509.323-8979  
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1       **45. (CURRENTLY AMENDED)** An apparatus comprising:

2       a processor;

3       an object serializer executable on the processor to:

4               generate a data structure ("datastruct") element representative of a  
5       data structure of a first object, the datastruct element having a pair of  
6       datastruct tags, wherein the datastruct tags identify the datastruct element;

7               generate contents of the datastruct element between the datastruct  
8       tags, the contents comprising one or more data parameter elements  
9       representative of one or more data parameters of the first object's data  
10      structure, each parameter element having a pair of parameter tags  
11      associated therewith, wherein each pair of parameter tags identifies a  
12      parameter element with which the pair of tags is associated, each parameter  
13      element having associated data between the parameter tags.

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15      **46. (CANCELED)**

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18      **47. (CANCELED)**  
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8

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1           **48. (ORIGINAL)** A data structure for use with a computer having a  
2 processor and a memory, said structure comprising one or more data parameter  
3 elements, each parameter element having a pair of parameter tags associated  
4 therewith and encoded in XML, wherein each pair of parameter tags identifies a  
5 parameter element with which the pair of tags is associated, each parameter  
6 element having associated data between the parameter tags.

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8           **49. (CANCELED)**  
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11           **50. (CANCELED)**  
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F: 509.323.8979  
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